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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/035,324	01/04/2002	H. William Bosch	029318-0107 2223		
-	31049 7590 06/07/2007 ELAN DRUG DELIVERY, INC.			EXAMINER	
C/O FOLEY & LARDNER LLP			HAGHIGHATIAN, MINA		
3000 K STREET, N.W. SUITE 500			ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20007-5109		1616		
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			06/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/035,324	BOSCH ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mina Haghighatian	1616			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DOWN THE MAILING DOWN THE STATE OF THE MAILING THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 22 M	larch 2007.				
<i>'</i> <u>−</u>	·— ,				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) 15-34 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o 	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposed and all accomposed and all accomposed and accomposed accomposed and accomposed accomposed accomposed and accomposed accomp	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 	4)	ate			

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/06/07 has been entered.

Receipt is acknowledged of the Amendments and remarks filed on 03/06/07 and the supplemental Amendments filed on 03/22/07. Claims 1-14 have been amended, no claims cancelled or added and claims 15-34 remain withdrawn. Accordingly claims 1-14 are under examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 4-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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Claims 1 and 4-7 are indefinite for reciting an absolute term next to an approximate term. In other words the terms "less than" and "about" can not, at the same time identify a range or amount.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wiedmann et al (5,747,001) in view of Westesen et al (6,207,178 B1).

Wiedmann et al teach aerosols containing droplets of an aqueous **dispersion** of nanoparticles of insoluble **beclomethasone** particles having a surface modifier on the surface thereof. Representative examples of surface modifiers include gelatin, bezalkonium chloride, PVA, sorbitans, etc (see col. 3, line 30 to col. 4, line 45). A suitable surfactant is **tyloxapol** (see col. 4, lines 49-60), the particles are preferably less than 400 nm in size, or more preferably less than 250 and most preferably **less than 100 nm** in size (see col. 6, lines 8-15 and col. 10, lines 25-35). The process of making such nanoparticles includes attrition and **filteration** (see col. 7, lines 18-21). It is disclosed that the concentration of the beclomethasone in the liquid medium can vary from about 0.1 to 60%, and preferably from 5-30% (w/w) (see col. 6, lines 19-22). Weidmann discloses that the surface modifies can be present in the formulation in an amount from 0.1-90% or preferably from 20-60% based on the total weight of the dry

particles (see col. 6, lines 23-28 and col. 10, lines 40-55). Wiedmann lacks teachings on sterile filteration.

Westesen et al teach solid particles of bioactive agents and methods for the manufacture and use thereof. The disclosure is in the area of administration forms and delivery systems for drugs, vaccines and other biologically active agents such as fungicides (see col. 1, lines 60-65). A small particle size is also required for the targeting of drugs (col. 3, lines 15-21). Since SLPs can be prepared down to a particle size of about 50 nm, they possess the opportunity of axtravasation through fenestrations of the endothelial wall. Thereby, drugs can be targeted to extravascular sites such as the bone marrow (col. 6, lines 57-65).

Westesen et al teaches suspensions of micron and submicron particles of biodegradable lipids solid at room temperature to suspensions of particles of meltable bioactive substances to lyophilizates thereof and to methods for the manufacturing thereof (col. 8, line 66 to col. 9, line 4). The suspensions are stabilized by amphiphatic compounds. Suitable stabilizers include **tyloxapol** (see paragraph bridging cols. 9 and 10). The aqueous phase in which the SLPs are dispersed can contain water-soluble or dispersable stabilizers (see col. 10, lines 9-14). Substantces particularly suitable for the entrapment into SLPs are drugs such as cortisone, dexamethasone, etc (see col. 10, lines 20-56). The bioactive substances can be dissolved, solubilized or <u>dispersed</u> in the matrix and/or in the stabilizer layers surrounding the particle matrix, and/or can be adsorbed to the surface of SLPs (see col. 10, lines 61-66).

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Westesen et al disclose the steps in the manufacture of the solid particles which includes sterile filteration of the dispersion. It is disclosed that after homogenization the **dispersion** can be <u>sterilized</u> by standard techniques such as autoclaving or **filteration through a 0.2 micron sterile filter** provided that the particles are small enough not to be retained by the filter (see col. 11, lines 34-40).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have implemented the sterile filteration method as taught by Westesen et al in the formulations and process of Wiedmann, since Wiedmann teaches filteration of nanoparticles of beclomethasone and tyloxapol. In other words, one of ordinary skill in the art would have been motivated to implement sterile filteration of Westesen et al instead of simple filteration of Wiedmann because sterilization of formulations is beneficial to recipients. It has been clearly shown that a combination of Weidmann and Westesen et al meets each and every limitation of the instant claims.

Response to Arguments

Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mina Haghighatian whose telephone number is 571-272-0615. The examiner can normally be reached on core office hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mina Haghighatian Patent Examiner June 04, 2007